IN THE CLAIMS:

Please amend the claims as follows:

Claim 1 (Currently Amended): An information recording apparatus comprising:

a light source which emits a recording light for information recording;

a recording pulse signal generating unit which generates a recording pulse signal

corresponding to an inputted recording signal;

a high frequency signal generating unit which generates a digital high frequency signal

based on the recording signal;

an adder which adds the recording pulse signal and the digital high frequency signal to

generate a driving pulse signal; and

a driving unit which drives the light source based on the driving pulse signal to emit the

recording light.

Claim 2 (Original): The information recording apparatus according to claim 1, wherein

the high frequency signal has a constant phase relation with the recording pulse signal at a rise-

up portion and a fall-down portion of each pulse included in the recording pulse signal.

Claim 3 (Original): The information recording apparatus according to claim 2, wherein a

frequency of the high frequency signal in each pulse period is determined to have the constant

phase relation with the recording pulse signal at the rise-up portion and the fall-down portion of

each pulse included in the recording pulse signal.

Claim 4 (Original): The information recording apparatus according to claim 2, wherein a

phase of the high frequency signal coincides with a phase of the recording pulse signal at the

rise-up portion and the fall-down portion of each pulse included in the recording pulse signal.

Claim 5 (Original): The information recording apparatus according to claim 2, wherein a

phase of the high frequency signal is ahead of or behind a phase of the recording pulse signal by

a constant angle at the rise-up portion and the fall-down portion of each pulse included in the

recording pulse signal.

Claim 6 (Original): The information recording apparatus according to claim 1, wherein

the high frequency signal generating unit determines amplitude of the high frequency signal to be

optimum to a recording power level in each pulse period for each pulse period included in the

recording pulse signal.

Claim 7 (Original): The information recording apparatus according to claim 1, wherein

the high frequency signal has different amplitude in each pulse period included in the recording

pulse signal.

Claim 8 (Original): The information recording apparatus according to claim 1, wherein

the high frequency signal generating unit comprises:

a high frequency signal table which stores high frequency signal data including a

frequency and an amplitude predetermined corresponding to a recording mark length;

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a unit which refers to the high frequency signal table, based on the recording mark length included in the inputted recording signal, to obtain the frequency and the amplitude of the high frequency signal corresponding to each recording mark; and

a unit which generates the digital high frequency signal having the obtained frequency and amplitude.

Claim 9 (Original): The information recording apparatus according to claim 1, wherein the high frequency signal generating unit comprises:

a high frequency signal table which stores high frequency signal data including a frequency and an amplitude predetermined corresponding to the recording mark length and a space length preceding to the recording mark;

a unit which refers to the high frequency signal table, based on the recording mark length and the front space length included in the inputted recording signal to obtain the frequency and the amplitude of the high frequency signal corresponding to each recording mark; and

a unit which generates the digital high frequency signal having the obtained frequency and amplitude.

Claim 10 (Original): The information recording apparatus according to claim 1, wherein the high frequency signal generating unit comprises a D/A converter which converts the digital high frequency signal to an analog high frequency signal, and

wherein the adder adds the recording pulse signal and the analog high frequency signal to generate an analog driving pulse signal.

Claim 11 (Original): The information recording apparatus according to claim 1, wherein the recording pulse signal generating unit generates a digital recording pulse signal, and wherein the adder comprises:

a unit which generates a digital driving pulse signal by adding the digital recording pulse signal and the digital high frequency signal; and

a D/A converter which converts the digital driving pulse signal to an analog driving pulse signal.

Claim 12 (Original): The information recording apparatus according to claim 1, wherein the recording pulse signal generating unit generates a digital recording pulse signal and comprises a D/A converter which converts the digital recording pulse signal to an analog recording pulse signal,

wherein the high frequency signal generating unit comprises a D/A converter which converts the digital high frequency signal to an analog high frequency signal, and

wherein the adder adds the analog recording pulse signal and the analog high frequency signal to generate an analog driving pulse signal.

Claim 13 (Currently Amended): An information recording method comprising: a recording pulse signal generating process which generates a recording pulse signal corresponding to an inputted recording signal;

a high frequency signal generating process which generates a digital high frequency signal based on the recording signal;

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an adding process which generates a driving pulse signal by adding the recording pulse signal and the <u>digital</u> high frequency signal; and

a driving process which drives a light source based on the driving pulse signal to emit a recording light for information recording.